Residual oil saturation to gas sweep (sorg)

A value of oil saturation $k_{rog}(s_o < s_{rog}$ below which oil is not getting swept by gas:

(1) $$k_{rog}(s_o < s_{rog}) = 0$$

It usually depends on absolute permeability k_a as:

(2) $$s_{org} = s_{org,0} \cdot \left(1 + k_a / k_{a,sorg}\right)^{-n_{sorg}}$$

See also

Physics / Fluid Dynamics / Percolation

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Field Study & Modelling

[Petrophysics] [Basic reservoir properties] [Wettability] [Permeability] [Absolute permeability] [Relative permeability] [Oil permeability] [Oil relative permeability] [Oil-gas relative permeability (krog)]